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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,472	03/30/2001	Thomas E. Willis	42390.P8930	6094
7590 12/23/2003		EXAMINER		
Jordan Michael Becker			PORTKA, GARY J	
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2188	
Los Angeles, C	A 90025-1026		DATE MAILED: 12/23/2001	, /

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	/				
		09/823,472	WILLIS ET AL.	/				
Office Action Summary		Examiner	Art Unit					
		Gary J Portka	2188					
Period fo	 The MAILING DATE of this communication or Reply 	appears on the cover sheet wi	th the correspondence address					
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, and period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a re to reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MON' tatute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	ation.				
1)⊠	Responsive to communication(s) filed on 2	6 November 2003.						
2a)⊠	This action is FINAL . 2b) T	his action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-46 is/are pending in the application	tion.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	D⊠ Claim(s) <u>1-46</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction ar	nd/or election requirement.						
Applicat	ion Papers							
9)[The specification is objected to by the Exan	niner.						
10)[The drawing(s) filed on is/are: a)	accepted or b) objected to t	by the Examiner.					
	Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) is objected to. See 37 CFR 1.12	21(d).				
11)	The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152	2.				
Priority ι	ınder 35 U.S.C. §§ 119 and 120							
	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docum		119(a)-(d) or (f).					
* (Certified copies of the priority docum Copies of the certified copies of the papplication from the International Bustee the attached detailed Office action for a	nents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	received in this National Stage					
13)∏ <i>A</i> s 3	Acknowledgment is made of a claim for dom ince a specific reference was included in the 7 CFR 1.78.) The translation of the foreign language	estic priority under 35 U.S.C. ge first sentence of the specifications.	§ 119(e) (to a provisional application or in an Application Data S					
14) 🗌 <i>A</i>	Acknowledgment is made of a claim for dome eference was included in the first sentence of	estic priority under 35 U.S.C.	§§ 120 and/or 121 since a spec					
Attachmen	t(s)		•					
2) Notic	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No) 5) 🔲 Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)					

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DETAILED ACTION

1. Claims 1-46 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Bourekas, U.S. Patent 6,598,050 B1.
- 4. As to claims 1-3, 5-10, 12, and 31-34, Bourekas discloses a method, executable code, and processor for transparently sharing virtual address translations, by accessing a translation and identifying if it is sharable (see Abstract, Figs 1 and 2, col. 1 line 49 to col. 2 line 50, and col. 4 line 21 to col. 5 line 12; the global bit 115 and group membership fields 118 identify if the translation is sharable and if so by the current task, and this procedure is transparent to the OS as recited, since the prior art required OS traps but the invented system requires no traps and therefore no modification of or special support by the OS).
- 5. As to claims 13-15, 19-22, and 28-30, Bourekas discloses processors and multiple logical processors as recited, since multiple tasks/processes are described.

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6. As to claims 24-27, 35-36, 40, and 42-46, Bourekas discloses that the TLB stores the indication (Fig. 1).

- 7. As to claims 4, 11, 37-38, and 41, in Bourekas the fields 118 identify the logical processes.
- 8. As to claims 23 and 29, Bourekas discloses the recited matching of second translation data to first since as shown in Fig. 4, multiple matches are performed which result in the recited identification of sharing.
- 9. As to claims 16-18, Bourekas discloses that the translations provide access to a shared cache, since as shown in Fig. 4 the translations whether to access main memory 238 or the cache 236, and the cache is shared since multiple tasks are performed in the depicted translation procedure.

Response to Arguments

10. Applicant's arguments filed November 26, 2003 have been fully considered but they are not persuasive. Applicants argue that Bourekas discloses the OS explicitly identifying if the translations are sharable. Examiner disagrees that the OS explicitly identifies as stated, the description states only that the OS supports and permits the shared and unshared translations, and regardless does so without requiring special operating system support or modification, which is applicant's own stated definition of the term "transparent". Applicants also argue that Bourekas does not disclose or suggest control logic identifying a sharability for translated address data, but rather matches the TLB group and virtual address membership fields. Examiner fails to see

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how the matching of two fields as stated does not read on the recited control logic, and therefore the rejection is maintained.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary J Portka whose telephone number is (703) 305-4033. The examiner can normally be reached on M-F 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (703) 306-2903. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-3900.

Gary J Portka Primary Examiner Art Unit 2188

Sour Weather

December 22, 2003

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